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💠 Luis Francisco-Revilla, Frank M. Shipman, III, Richard Furuta, Unmil Karadi
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moves, and occasionally disappears. Bookmarks, paths over Web pages
examples of page collections that can become ...

Keywords: Walden's paths, fluid documents, managing fluid Web page
change

2 A Self-Organizing Storage Cluster for Parallel Data-Intensive Applica
Hong Tang, Aziz Gulbeden, Jingyu Zhou, William Strathearn, Tao Yang, Lin
November 2004 **SC '04**: Proceedings of the 2004 ACM/IEEE conference on S
Publisher: IEEE Computer Society
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Cluster-based storage systems are popular for data-intensive applicatio
challenging to provide incremental expansion and high availability while
consistency. This paper presents the design and ...

3 A generic alerting service for digital libraries
💠 George Buchanan, Annika Hinze
June 2005 **JCDL '05**: Proceedings of the 5th ACM/IEEE-CS joint conferenc
Publisher: ACM 💠 Request Permissions
Full text available: 📄 Pdf (195.49 KB)   Additional Information: full citation, abstract,

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Users of modern digital libraries (DLs) can keep themselves up-to-date
favorite collections, or more conveniently by resorting to an alerting ser
its clients about new or changed documents. ...

Keywords: alerting, digital libraries, publish/subscribe

4 Tashkent+: memory-aware load balancing and update filtering in rep
💠 Sameh Elnikety, Steven Dropsho, Willy Zwaenepoel
June 2007 **EuroSys '07**: Proceedings of the 2nd ACM SIGOPS/EuroSys Eu

Systems 2007
Publisher: ACM
Full text available: Pdf (320.18 KB)   Additional Information: full citation, abstract,

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We present a *memory-aware* load balancing (MALB) technique to dispat
replicated database. Our MALB algorithm exploits knowledge of the wor
them to replicas in such a way that they ...

Keywords: database replication, load balancing

Also published in:
   June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

5 OceanStore: an architecture for global-scale persistent storage
   John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eato
   Gummadi, Sean Rhea, Hakim Weatherspoon, Westley Weimer, Chris Wells,
   November 2000 **SIGPLAN Notices** , Volume 35 Issue 11
   Publisher: ACM
   Full text available: Pdf (1.47 MB)   Additional Information: full citation, abstract,

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OceanStore is a utility infrastructure designed to span the globe and pr
persistent information. Since this infrastructure is comprised of untruste
through redundancy and cryptographic techniques. ...

6 OceanStore: an architecture for global-scale persistent storage
   John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eato
   Gummadi, Sean Rhea, Hakim Weatherspoon, Chris Wells, Ben Zhao
   December 2000 **ASPLOS-IX:** Proceedings of the ninth international confere
            programming languages and operating systems
   Publisher: ACM Request Permissions
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Bibliometrics: Downloads (6 Weeks): 31,   Downloads (12 Months): 261,   Citati

OceanStore is a utility infrastructure designed to span the globe and pr
persistent information. Since this infrastructure is comprised of untruste
through redundancy and cryptographic techniques. ...

Also published in:
   December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5
   December 2000 **SIGOPS Operating Systems Review**   Volume 34 Issue 5

7 Extending document management systems with user-specific active
   Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Pe
   B. Terry, James Thornton
   April 2000   **Transactions on Information Systems (TOIS)** , Volume 18 Iss
   Publisher: ACM Request Permissions
   Full text available: Pdf (166.43 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 264,   Citati

Document properties are a compelling infrastructure on which to develo
applications. A property-based approach avoids many of the problems c
mechanisms, reflects document organizations meaningful ...

Keywords: active properties, component software, document manager user experience

8 Computing curricula 2001
CORPORATE The Joint Task Force on Computing Curricula
September 2001 **Journal on Educational Resources in Computing (JER**
Publisher: ACM ◆ Request Permissions
Full text available: Html (2.78 KB), Pdf (613.63 KB) Additional Information: full citatic

Bibliometrics: Downloads (6 Weeks): 101, Downloads (12 Months): 1176, Cit;

9 Principled design of the modern Web architecture
Roy T. Fielding, Richard N. Taylor
May 2002 **Transactions on Internet Technology (TOIT)** , Volume 2 Issue
Publisher: ACM ◆ Request Permissions
Full text available: Pdf (335.47 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 473, Citatic

The World Wide Web has succeeded in large part because its software a
meet the needs of an Internet-scale distributed hypermedia application.
emphasizes scalability of component interactions, ...

Keywords: Network-based applications, REST, World Wide Web

10 Extending DBMSs with satellite databases
Christian Plattner, Gustavo Alonso, M. Tamer Özsu
July 2008 **The VLDB Journal — The International Journal on Very L**
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (681.33 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 108, Citatic

In this paper, we propose an extensible architecture for database engin
used to scale out and implement additional functionality for a centralize
architecture uses a middleware layer that offers consistent ...

Keywords: Dynamic satellite creation, Extending database functionality
isolation

11 Communications of the ACM: Volume 51 Issue 9
September 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (8.68 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 353, Downloads (12 Months): 4045, Cit;

12 On incremental file system development
Erez Zadok, Rakesh Iyer, Nikolai Joukov, Gopalan Sivathanu, Charles P. W
May 2006 **Transactions on Storage (TOS)** , Volume 2 Issue 2
Publisher: ACM ◆ Request Permissions
Full text available: Pdf (260.40 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 228, Citatic

Developing file systems from scratch is difficult and error prone. Using I
is a powerful technique to incrementally extend the functionality of exis

OSes at runtime. In this article, we ...

Keywords: I/O manager, IRP, Layered file systems, VFS, extensibility,

13 Dynamic software updating
Michael Hicks, Scott Nettles
November 2005 **Transactions on Programming Languages and System**
Publisher: ACM ❖ Request Permissions
Full text available: 🔲 Pdf (622.69 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 38,   Downloads (12 Months): 255,   Citati

Many important applications must run continuously and without interrup
changed to fix bugs or upgrade functionality. No prior general-purpose
achieves a practical balance between flexibility, ...

Keywords: Dynamic software updating, typed assembly language

14 The JBoss extensible server
Marc Fleury, Francisco Reverbel
June 2003   **Middleware '03**: Proceedings of the ACM/IFIP/USENIX 2003
           Middleware
Publisher: Springer-Verlag New York, Inc.
Full text available: 🔲 Pdf (255.50 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 10,   Citation

JBoss is an extensible, reflective, and dynamically reconfigurable Java a
of components that implement the J2EE specification, but its scope goes
ended middleware, in the sense that ...

15 Chimera: hypermedia for heterogeneous software development envi
Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead, Jr.
July 2000   **Transactions on Information Systems (TOIS)** , Volume 18 Is:
Publisher: ACM ❖ Request Permissions
Full text available: 🔲 Pdf (864.32 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 64,   Citation

Emerging software development environments are characterized by het
diverse object stores, user interfaces, and tools. This paper presents an
hypermedia services in this heterogeneous setting. Central ...

Keywords: heterogeneous hypermedia, hypermedia system architectur
systems, software development environments

16 A survey of autonomic communications
Simon Dobson, Spyros Denazis, Antonio Fernández, Dominique Gaïti, Erol
Nixon, Fabrice Saffre, Nikita Schmidt, Franco Zambonelli
December 2006 **Transactions on Autonomous and Adaptive Systems (**
Publisher: ACM ❖ Request Permissions
Full text available: 🔲 Pdf (300.86 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 80,   Downloads (12 Months): 863,   Citatio

Autonomic communications seek to improve the ability of network and s
change, including changes in topology, load, task, the physical and logic

that can be accessed, and so forth. Broad-ranging ...

Keywords: Autonomic communication

17 Communications of the ACM: Volume 51 Issue 7
July 2008   Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (6.54 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 3690,   Downloads (12 Months): 7051,   Ci

18 Runtime software adaptation: framework, approaches, and styles
Peyman Oreizy, Nenad Medvidovic, Richard N. Taylor
May 2008   **ICSE Companion '08:** Companion of the 30th international cc
Publisher: ACM
Full text available: Pdf (1.16 MB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 57,   Downloads (12 Months): 358,   Citatic

Our ICSE 1998 paper showed how an application can be adapted at run
architectural model. In particular, our paper demonstrated the beneficia
aiding runtime change, (2) an explicit architectural ...

Keywords: architectural styles, autonomic computing, software adapta
software evolution

19 Flexible Decoupled Transactional Memory Support
Arrvindh Shriraman, Sandhya Dwarkadas, Michael L. Scott
June 2008   **ISCA '08:** Proceedings of the 35th International Symposium o
Publisher: ACM
Full text available: Pdf (715.01 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 229,   Citatic

A high-concurrency transactional memory (TM) implementation needs t
speculative updates, and manage conflicts. We present a system, FlexT
Memory), that coordinates four decoupled hardware mechanisms: ...

Keywords: Transactional memory, Hardware, Cache coherence, Multip
FlexTM

Also published in:
June 2008 **SIGARCH Computer Architecture News** Volume 36 Issue 3

20 Managing versions of web documents in a transaction-time web serv
Curtis E. Dyreson, Hui-ling Lin, Yingxia Wang
May 2004   **WWW '04:** Proceedings of the 13th international conference o
Publisher: ACM
Full text available: Pdf (238.32 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 37,   Citation

This paper presents a transaction-time HTTP server, called TTApache th
A document often consists of a main file formatted in HTML or XML and
images and stylesheets. A change to any of the ...

Keywords: observant system, transaction time, versioning